DATASHEET - E01



Contact element, 1 N/C, front mount, screw connection

Powering Business Worldwide

E01 Part no. Catalog No. 090401 Alternate Catalog E01

EL-Nummer 4356332

(Norway)

Delivery program

| Delivery program | |
|---|--|
| Product range | Accessories |
| Single unit/Complete unit | Single unit |
| Basic function accessories | Contact elements |
| Connection technique | Blade terminal |
| Description | admissible operating voltage: 5 – 250 V |
| Contacts | |
| N/C = Normally closed | 1 NC → |
| Notes | = safety function, by positive opening to IEC/EN 60947-5-1 |
| Contact traval diagram etraks in connection with front clargest | |
| Contact travel diagram, stroke in connection with front element | 0 1 3.7 mm |
| Degree of Protection | IP20 with ISH2,8 |
| Connection to SmartWire-DT | no |

Technical data

| General | | | | |
|-----------|--|--|--|--|
| Standards | | | | |
| | | | | |

| delielai | | | |
|------------------------------------|--------------|-------------------|--|
| Standards | | | IEC/EN 60947 |
| Lifespan, mechanical | Operations | x 10 ⁶ | > 100 |
| Operating frequency | Operations/h | | ≦ 3600 |
| Actuating force | | n | ≦3 |
| Degree of protection, IEC/EN 60529 | | | IP20 with ISH2,8 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -25 - +60 |

| Enclosed | | °C | - 25 - 40 |
|--|----------------|--------------------|--|
| Mounting position | | | As required |
| Mechanical shock resistance | | g | > 40 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal |
| Terminal capacities | | mm ² | 0.5 - 1.0 |
| Blade terminal | | | 2.8 x 0.8 mm to DIN 46244 |
| Fast-on connectors | | | 2.8 x 0.8 mm to DIN 46247 and IEC 60760 |
| Contacts | | | |
| Rated impulse withstand voltage | U_{imp} | V AC | 4000 |
| Rated insulation voltage | Ui | V | 250 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated operational voltage | U _e | V AC | 250 |
| Rated conditional short-circuit current | I_q | kA | 1 |
| Control circuit reliability | | | |
| at 24 V DC/5 mA | H _F | Fault probabili | < 10 ⁻⁷ (i.e. 1 failure to 10 ⁷ operations) |
| at 5 V DC/1 mA | H _F | Fault probabili | $< 5 \times 10^{-6}$ (i.e. 1 failure in 5×10^{6} operations) |
| Use of insulated ferrule ISH 2,8 | | | >24 V AC/DC recommended >50 V AC or 120 V DC is mandatory, even on unused blade terminals |
| Max. short-circuit protective device | | | |
| Fuseless | | Type | FAZ-B6/1 |
| Fuse | gG/gL | Α | 10 |
| Switching capacity | | | |
| Rated operational current | l _e | Α | |
| AC-15 | | | |
| 24 V | l _e | Α | 4 |
| 48 V | l _e | Α | 4 |
| 110 V | l _e | Α | 4 |
| 220 V 230 V 240 V | le | Α | 4 |
| DC-13 | | | |
| 24 V | I _e | Α | 1.5 |
| 42 V | I _e | Α | 1 |
| 60 V | I _e | Α | 0.8 |
| 110 V | I _e | Α | 0.5 |
| 220 V | I _e | Α | 0.2 |
| Lifespan, electrical AC-15 to IEC/EN 60947-5-1 at 230 V; $\rm l_{\rm e}$ = rated operational current | | | |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|--|
| Rated operational current for specified heat dissipation | In | Α | 4 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0.1 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 60 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |

| observed. | | |
|--|--|--|
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electric alcircuits and connections Is the panel builder's responsibility. 10.8 Connections for external conductors Is the panel builder's responsibility. 10.9.1 Insulation properties 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.3 Impulse withstand voltage Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility. 10.10 Temperature rise The panel builder's responsibility. The specifications for the switchgear must be observed. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction | 10.2.3.1 Verification of thermal stability of enclosures | Meets the product standard's requirements. |
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| | 10.13 Mechanical function | |

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

| Number of contacts as change-over contact | | 0 |
|---|---|------------------|
| Number of contacts as normally open contact | | 0 |
| Number of contacts as normally closed contact | | 1 |
| Number of fault-signal switches | | 0 |
| Rated operation current le at AC-15, 230 V | Α | 6 |
| Type of electric connection | | Screw connection |
| Model | | Top mounting |
| Mounting method | | Front fastening |
| Lamp holder | | None |

Approvals

| Product Standards | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking |
|-----------------------------|---|
| UL File No. | E29184 |
| UL Category Control No. | NKCR |
| CSA File No. | 46552 |
| CSA Class No. | 3211-03 |
| North America Certification | UL listed, CSA certified |